



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION

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Sheet 1 of 1

ATTORNEY DOCKET NO.

1736-000001/REB

SERIAL NO.

10/643,674

APPLICANT

HYON et al.

FILING DATE

August 19, 2003

GROUP

1711

U.S. PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	SB	3,563,870	Feb. 16, 1971	Tung et al.		
2.	SB	4,586,995	May 6, 1986	Randall et al.		
3.	SB	4,668,577	May 26, 1987	Ohta et al.		
4.	SB	5,160,464	Nov. 3, 1992	Ward et al.		

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
1.	SB	CA 1257745	Jul. 18, 1989	Canada		N/A	

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1.	SB	Bhateja et al. "Radiation-Induced Crystallinity Changes in Linear Polyethylene," <i>Journal of Polymer Science: Polymer Physics Edition</i> , Vol. 21 (1983) p. 523-536.
2.	SB	Bhateja, S.K. "Radiation-Induced Crystallinity Changes in Linear Polyethylene: Influence of Aging," <i>Journal of Applied Polymer Science</i> , Vol. 28 (1983) p. 861-872.
3.	SB	Muratoglu et al. "A Novel Method of Cross-Linking Ultra-High-Molecular-Weight Polyethylene to Improve Wear, Reduce Oxidation, and Retain Mechanical Properties," <i>The Journal of Arthroplasty</i> , Vol. 16, No. 2 (2001) p. 149-160.
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5.	SB	Streicher, R.M. "UHMW-Polyethylen als Werkstoff für artikulierende Komponenten von Gelenkendoprothesen (UHMW Polyethylene Used as a Material for the Articulating Components of Endoprotheses)," <i>Biomed. Technik</i> , Vol. 38, No. 12 (1993) p. 303-313. (See English Abstract)

Examiner: /Susan Berman/

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1.	SB	4,902,460	02/20/1990	Yagi et al.		
2.		5,478,906	12/26/1995	Howard, Jr.		
3.		5,508,319	04/16/1996	DeNicola, Jr. et al.		
4.		5,684,124	11/04/1997	Howard, Jr. et al.		
5.		5,824,411	10/20/1998	Shalaby et al.		
6.		2001/0049401	12/06/2001	Salovey et al.		
7.		6,372,814	04/16/2002	Sun et al.		
8.		2003/0158287	08/21/2003	Salovey et al.		
9.		6,664,308	12/16/2003	Sun et al.		
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11.		6,818,020	11/16/2004	Sun et al.		
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1.	SB	Appleby et al. "Post-Gamma Irradiation Cross-linking of Polyethylene Tape by Acetylene Treatment" Journal of Materials Science. Vol. 29 (1994) p. 227-231.
2.	SB	Appleby et al. "Property Modification of Polyethylene Tapes by Acetylene-Sensitized Gamma Irradiation" Journal of Materials Science. Vol. 29 (1994) p 151-156.
3.	SB	Bhateja et al. "Radiation-Induced Crystallinity Changes in Polyethylene Blends" Journal of Materials Science. Vol. 20 (1985) p. 2839-2845.
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5.	SB	Bowman, J. "The Processing and Properties of γ -Irradiated HDPE Granules" Intern. Polymer Processing III. (1988) p. 211-220.
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8.		Chu et al. "Some Structures and Properties of Very High Molecular Weight Linear Polyethylene" Bull. Inst. Chem. Res. Vol. 47, No. 3 (1969) p. 209-221.
9.		Dijkstra et al. "Cross-linking of Ultra-high Molecular Weight Polyethylene in the Melt by Means of Electron Beam Irradiation" Polymer. Vol. 30 (May 1989) p. 866-873.
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11.		du Plessis et al. "The Improvement of Polyethylene Prostheses Through Radiation Crosslinking" Radiat. Phys. Chem. Vol. 9 (1977) p. 647-652.
12.		Ellwanger et al. "Very High Pressure Molding of Ultra High Molecular Weight Polyethylene (UHMWPE)" ANTEC. (1987) p. 572-574.
13.		Gauvin et al., "Investigation of the Radio Frequency Heating Process for UHMWPE" ANTEC. (1987) p. 575-578.
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28.		Oonishi et al. "Improvement of Polyethylene by Irradiation in Artificial Joints" Radiat. Phys. Chem. Vol. 39, No. 6 (1992) p. 495-504.
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32.		Oonishi et al. "Wear Resistance of Gamma-Ray Irradiated UHMWPE Socket in Total Hip Prostheses - Wear Test and Long Term Clinical Results" 3rd World Biomaterials Congress, Transactions. (April 1988) p. 588.
33.		Patel, G. "Acceleration of Radiation-Induced Crosslinking in Polyethylene by Diacetylenes" Radiat. Phys. Chem. Vol. 14 (1979) p. 729-735.
34.		Rimnac et al. "Chemical and Mechanical Degradation of UHMWPE: Report of the Development of an In Vitro Test" Journal of Applied Biomaterials. Vol. 5 (1994) p. 17-21.
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36.		Salovey et al. "Irradiation of Ultra High Molecular Weight Polyethylene" Polymer Preprints. Vol. 26, No. 1 (1985) p. 118-119.
37.		Salovey, R. "On the Morphology of Crosslinking Polymers" Polymer Letters. Vol. 2 (1964) p. 833-834.
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39.		Sawatari et al. "Crosslinking Effect of Ultrahigh Molecular Weight Polyethylene-Low Molecular Weight Polyethylene Blend Films Produced by Gelation/Crystallization From Solutions" Colloid Polym Sci. Vol. 269, No. 8 (1991) p. 795-806.
40.		Shen et al. "The Friction and Wear Behavior of Irradiated Very High Molecular Weight Polyethylene" Wear. Vol. 30 (1974) p. 349-364.
41.		Streicher, R. "Change in Properties of High Molecular Weight Polyethylenes After Ionizing Irradiation for Sterilization and Modification" Third International Conference on Radiation Processing for Plastics and Rubber (November 1987) (9 pages).
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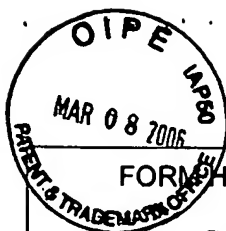
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45.		Waldman et al. "Compressive Stress Relaxation Behavior of Irradiated Ultra-High Molecular Weight Polyethylene at 37°C" <i>Journal of Applied Biomaterials</i> . Vol. 5 (1994) p. 333-338.
46.		Wang et al. "Melting of Ultrahigh Molecular Weight Polyethylene" <i>Journal of Applied Polymer Science</i> . Vol. 34 (1987) p. 593-599.
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49.		Wong et al. "Molecular Deformation Processes in Gel-Spun Polyethylene Fibres" <i>Journal of Materials Science</i> . Vol. 29 (1994) p. 520-526.
50.		Zhao et al. "Effect of Irradiation on Crystallinity and Mechanical Properties of Ultrahigh Molecular Weight Polyethylene" <i>Journal of Applied Polymer Science</i> . Vol. 50 (1993) p. 1797-1801.
51.		Zoepfl et al. "Differential Scanning Calorimetry Studies of Irradiated Polyethylene: I. Melting Temperatures and Fusion Endotherms" <i>Journal of Polymer Science: Polymer Chemistry Edition</i> . Vol. 22 (1984) p. 2017-2032.
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1.	SB	4,390,666	06/28/1983	Moriguchi et al.		
2.	SB	5,466,530	11/14/1995	England et al.		
3.	SB	5,709,020	01/20/1998	Pienkowski et al.		

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1.	SB	WO 93/10953	06/10/1993	WIPO		N/A	

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8.	SB	Nusbaum et al., The Effects of Radiation Sterilization on the Properties of Ultrahigh Molecular Weight Polyethylene, Journal of Biomedical Materials Research, Vol. 13, (1979) pp. 557-76.
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